



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

GP2739  
#3 formal  
Drawing  
Sno 7-5-00

Applicant: **Anand G. Dabak**

Docket No.: **TI-28997**

Serial No.: **09/514,451**

Examiner: **TBD**

Filed: **02/25/00**

Art Unit: **TBD**

For: **Cell Selection with STTD and SSdT**

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TRANSMITTAL OF FORMAL DRAWINGS

April 18, 2000

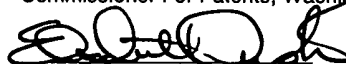
Assistant Commissioner For Patents

Attention: Official Drafts Person

Washington, DC 20231

MAILING CERTIFICATE UNDER 37 C.F.R. § 1.8(a)

I hereby certify that the above correspondence is being deposited with the U.S. Postal Service as First Class Mail in an envelope addressed to: Assistant Commissioner For Patents, Washington, DC 20231.

  
Elizabeth Austin

4/19/00  
Date

Dear Sir:

Submitted herewith are 4 sheets of formal drawings.

Texas Instruments Incorporated

P. O. Box 655474, MS 3999

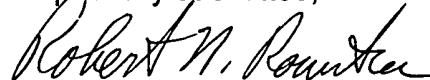
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Respectfully submitted,



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FIG. 1

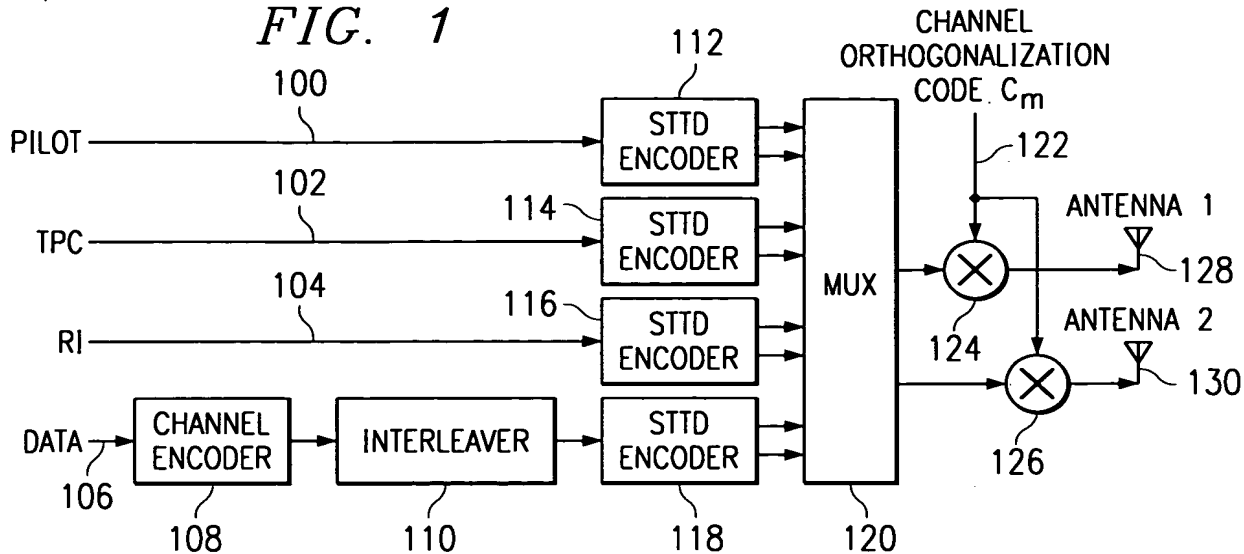


FIG. 2

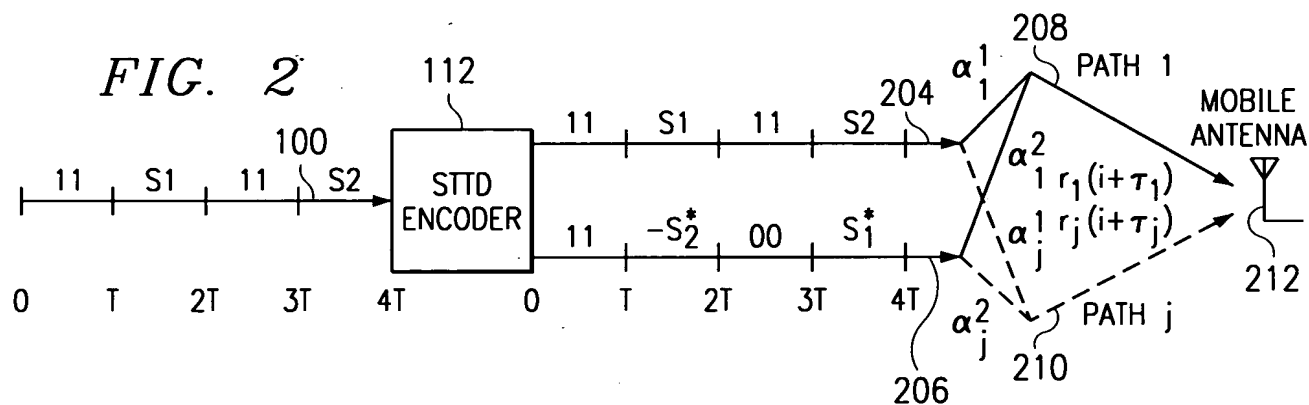
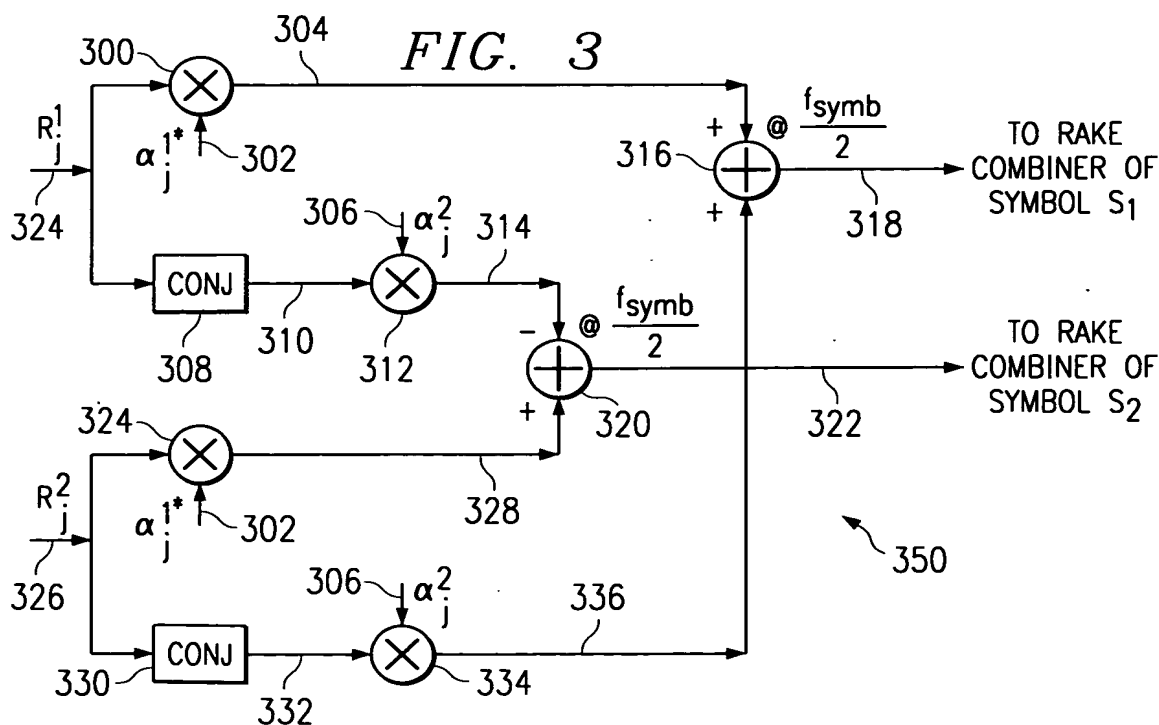
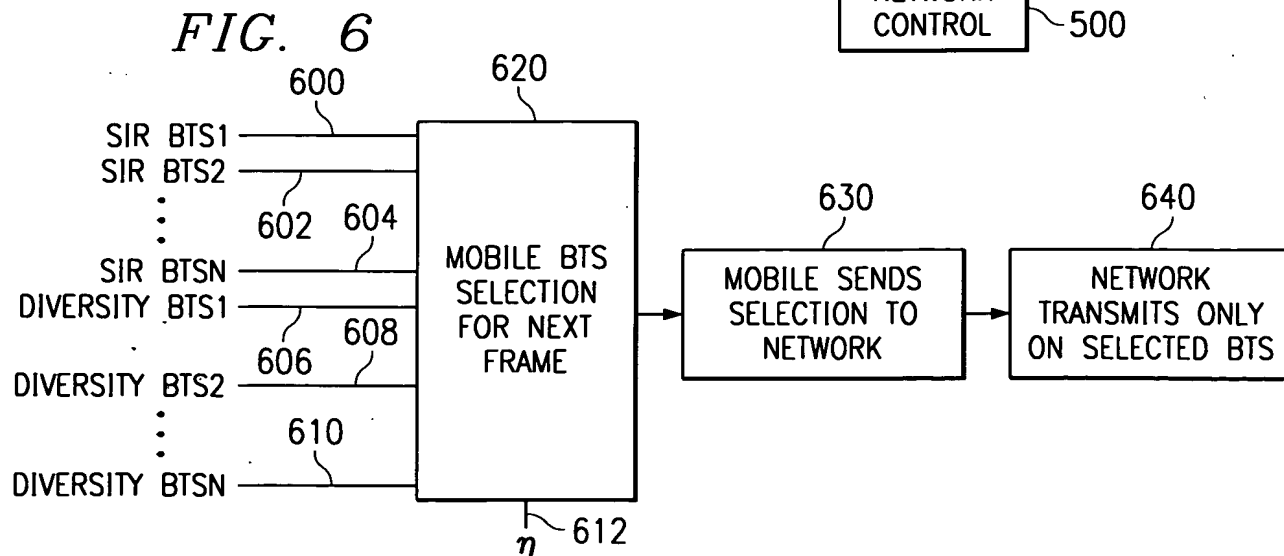
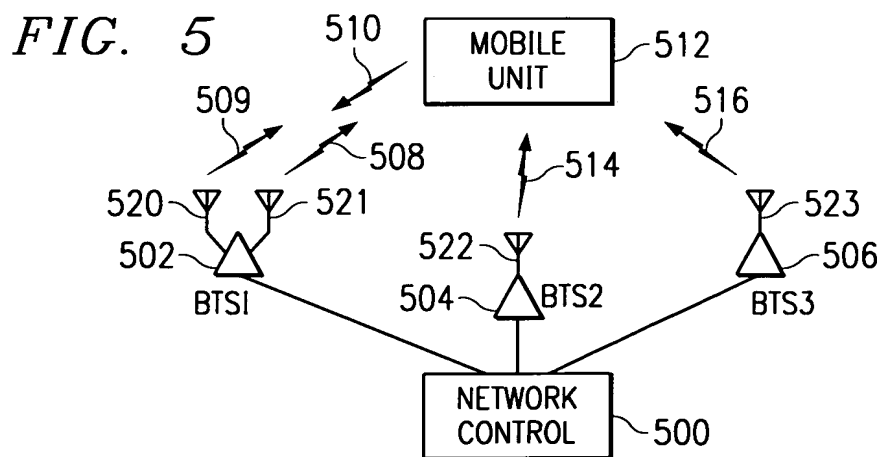
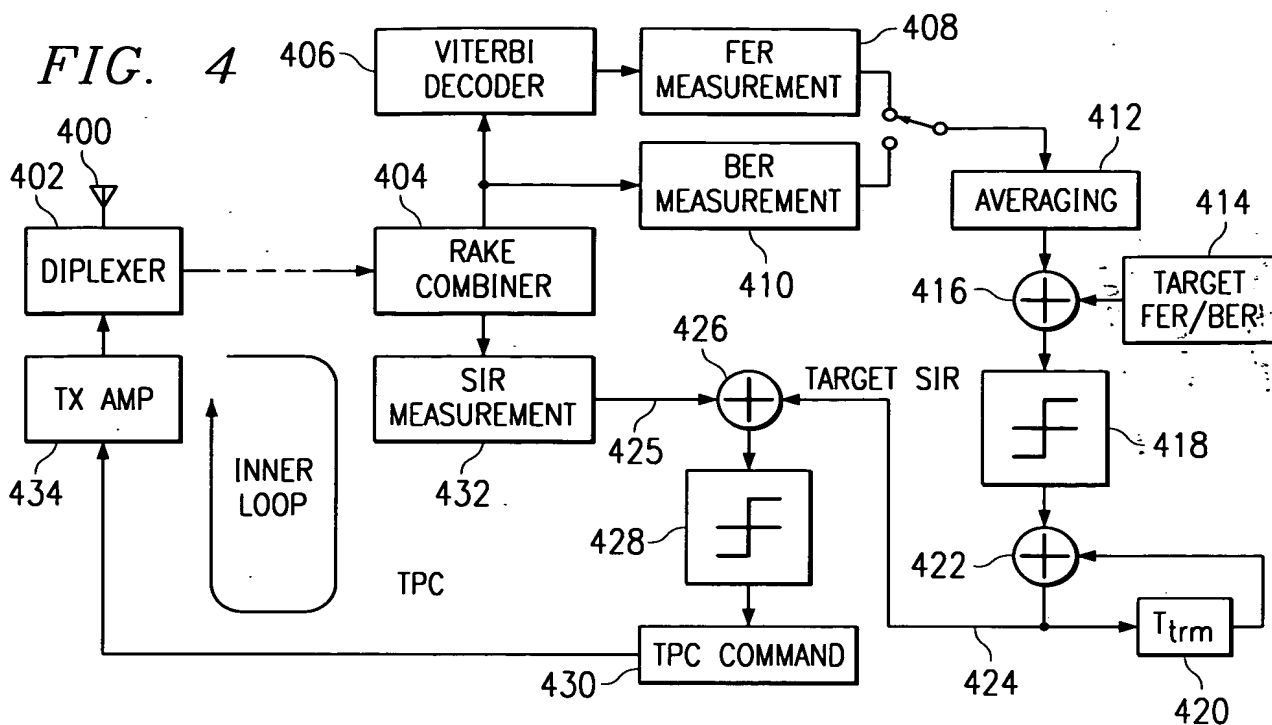
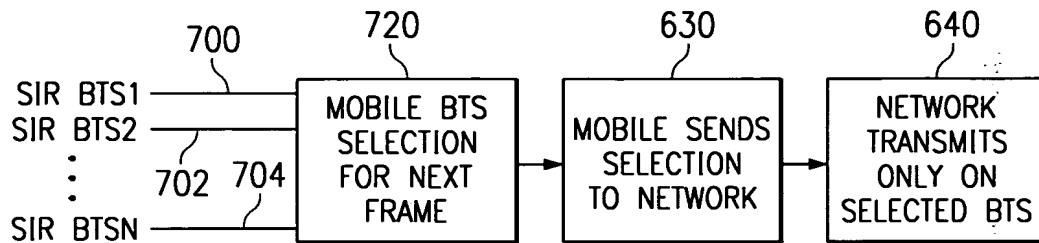


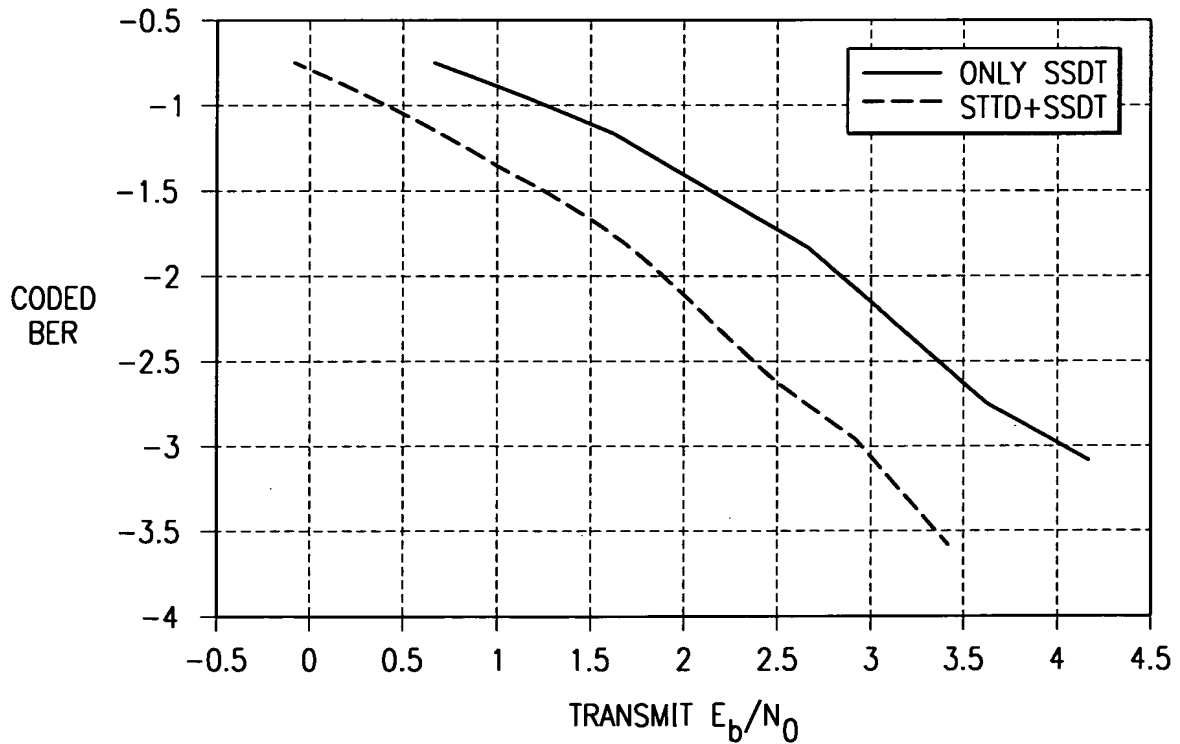
FIG. 3







*FIG. 7*  
(PRIOR ART)



*FIG. 9*

SIMULATION ENVIRONMENT	INDOOR-TO-OUTDOOR PEDESTRIAN
VELOCITY	3 kmph
DATA RATE	32 KSPS
INFORMATION BIT RATE	8 Kb/s
INFO/CRC/TAIL BIT PER FRAME	80/16/8
CONVOLUTIONAL CODING RATE	1/3, k = 9
REPETITION	8 bits/10 ms (312 -> 320)
INTERLEAVER	10 ms, 16*20
DCCH BITS/FRAME	96
PILOT/TPC/TFI BITS PER SLOT	8/2/0
CHANNEL ESTIMATION	PERFECT
NUMBER OF BASE STATIONS IN SOFT HANDOFF	3
SIMULATION CONDITION: ONLY SSDT	NO ANTENNA DIVERSITY AT ANY OF THE THREE BASE STATIONS
SIMULATION CONDITION: STTD + SSDT	TWO TRANSMIT ANTENNAS WITH STTD ENCODING AT EACH OF THE THREE BASE STATIONS
RELATIVE AVERAGE POWERS OF SOFT HANDOFF BASE STATIONS AT THE MOBILE	EQUAL
BASE STATION SELECTION AT MOBILE	ONLY SSDT: BASED UPON MAXIMUM RECEIVED POWER STTD+SSDT: BASED UPON MAXIMUM RECEIVED POWER
FREQUENCY OF BASE STATION SELECTION FOR SSDT	ONCE PER FRAME (10 msec.)
UP LINK ERRORS IN BASE STATION SELECTION FOR SSDT (FBI BIT ERROR RATE)	NONE
FORWARD LINK POWER CONTROL	ONLY SSDT: ONE SLOT AVERAGING FOR THE SELECTED BASE STATION STTD+SSDT: ONE SLOT AVERAGING FOR THE SELECTED BASE STATION
POWER CONTROL STEP (dB)	1
POWER CONTROL RATE (Hz)	1600
TPC UPDATE DELAY (SLOTS)	1
TPC ERROR RATE	5%
DESIRED CODED BER	10 <sup>-3</sup>

FIG. 8